

ABSTRACT

The invention relates to a multilayer pharmaceutical form for controlled active ingredient release, essentially comprising

- a) optionally a neutral core (nonpareilles),
- b) an inner controlling layer comprising a substance having a modulating effect, which is embedded in a matrix which influences the delivery of the modulatory substance and which comprises pharmaceutically usable polymers, waxes, resins and/or proteins, and where appropriate an active ingredient,
- c) an active ingredient layer comprising an active pharmaceutical ingredient and, where appropriate, a substance having a modulating effect,
- d) an outer controlling layer comprising at least 60% by weight of one or a mixture of a plurality of (meth)acrylate copolymers composed of 98 to 85 C₁ to C₄ alkyl esters of (meth)acrylic acid and 2 to 15% by weight of methacrylate monomers with a quaternary ammonium group in the alkyl radical, and, where appropriate, further water-insoluble pharmaceutically usable polymers, where the layers may additionally and in a manner known per se comprise pharmaceutically usual excipients.